

Standard	n	k	Galois Field symbol size	field generator polynomial	code generator polynomial
ATSC-8VSB (US Terrestrial)	207	187	8	$x^8 + x^4 + x^3 + x^2 + 1$	$\prod_{n=0}^{19} (x + \alpha^n)$
all DVB & ISDB (terrestrial, cable, & satellite)	204	188	8	$x^8 + x^4 + x^3 + x^2 + 1$	$\prod_{n=0}^{15} (x + \alpha^n)$
ITU-B (US Cable)	128	122	7	$x^7 + x^3 + 1$	$\prod_{n=1}^5 (x + \alpha^n)$ + extended symbol $c_{\text{ext}} = c(\alpha^6)$

Fig. 2 [Prior Art]

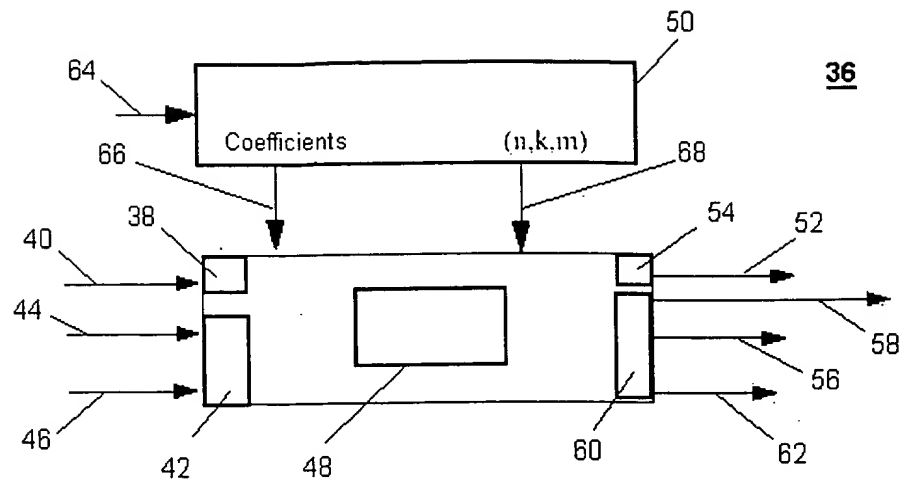


Fig. 3

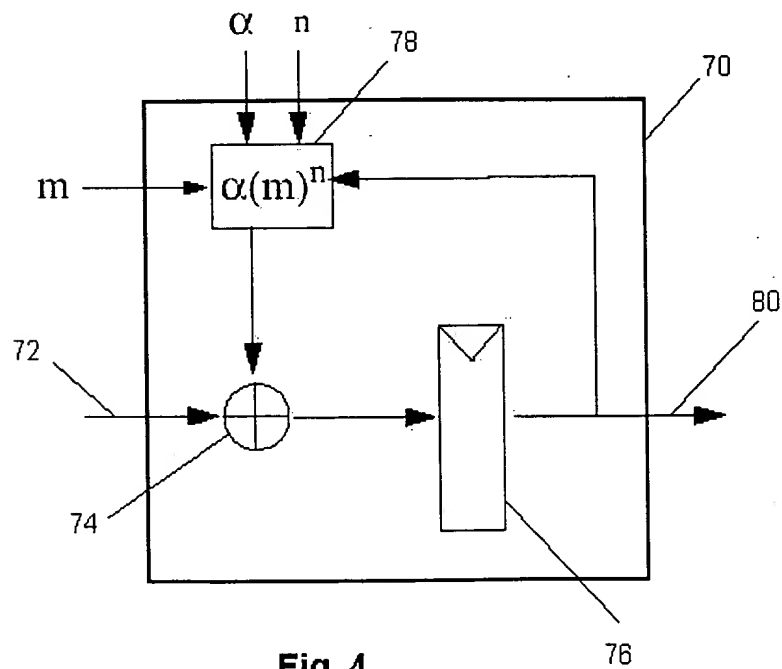


Fig. 4

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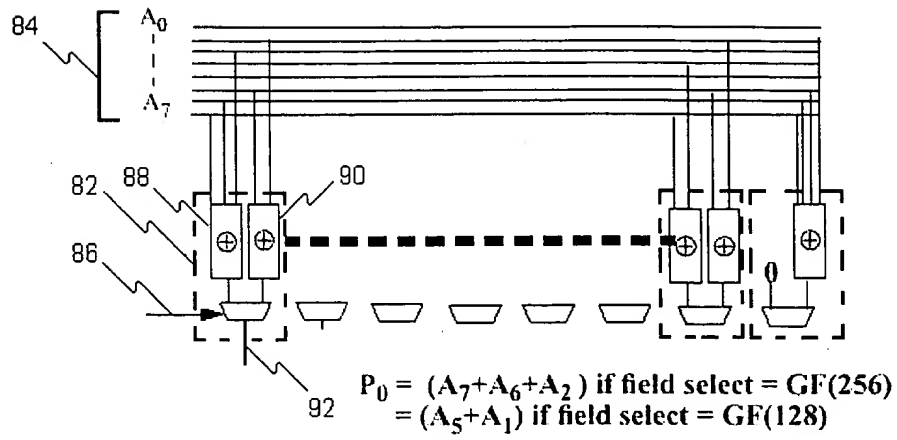


Fig. 5

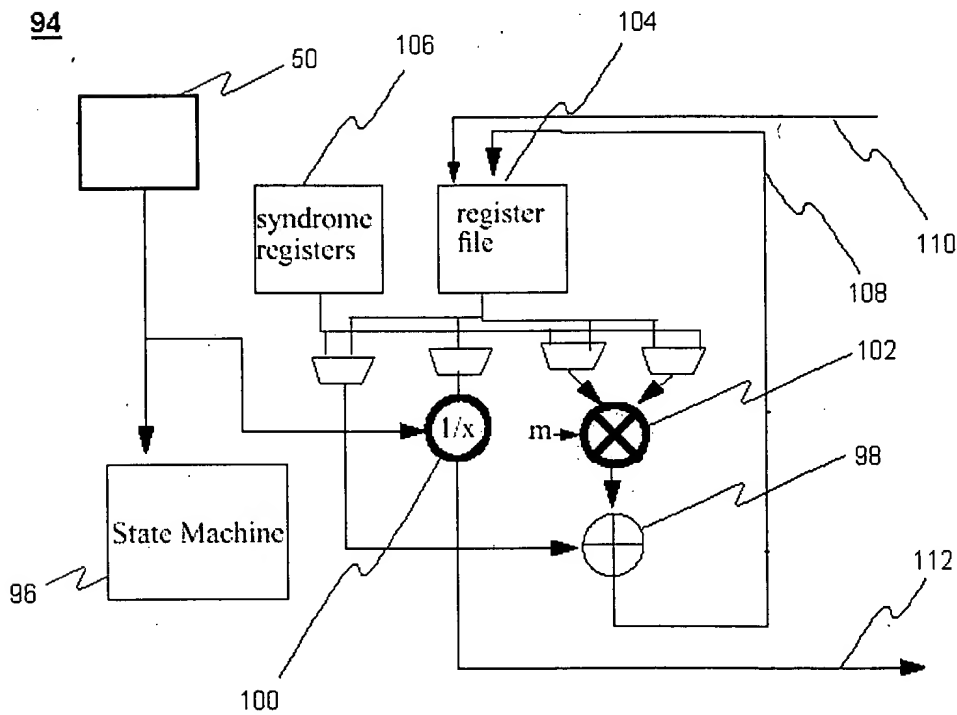


Fig. 6

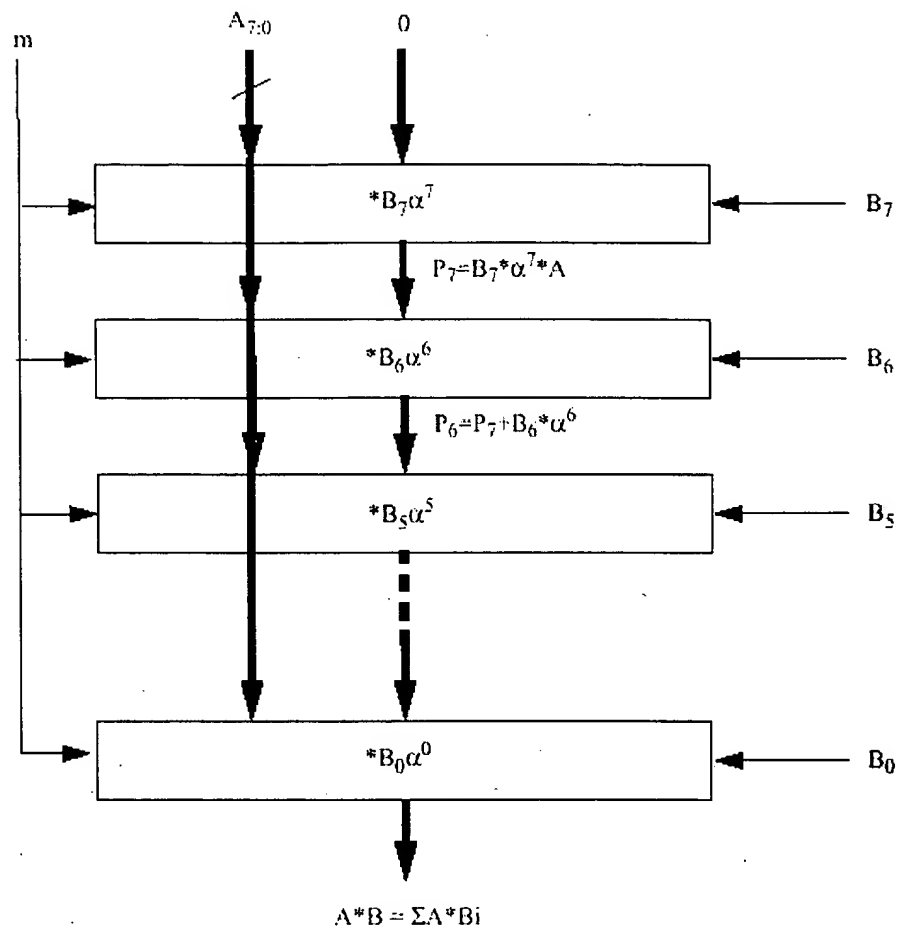


Fig. 7

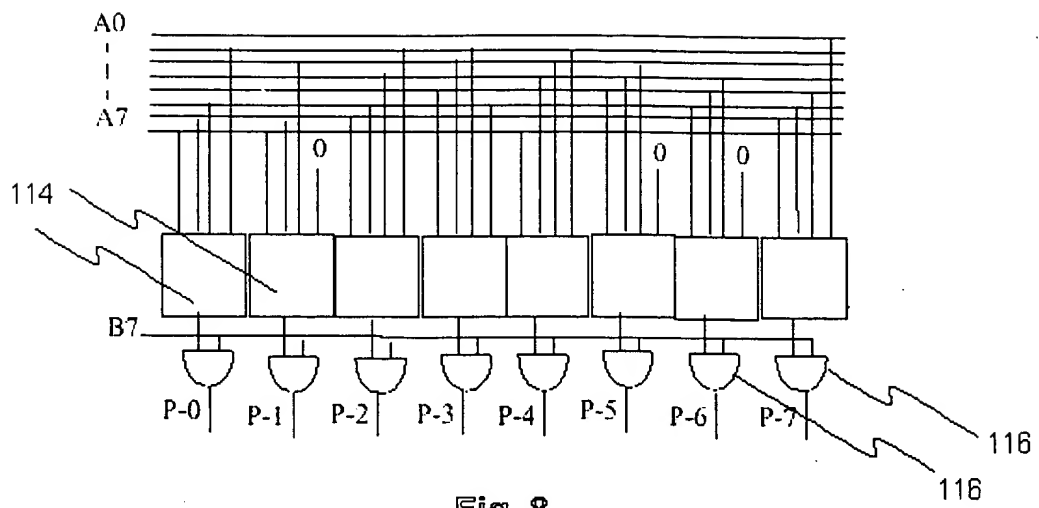


Fig. 8

118

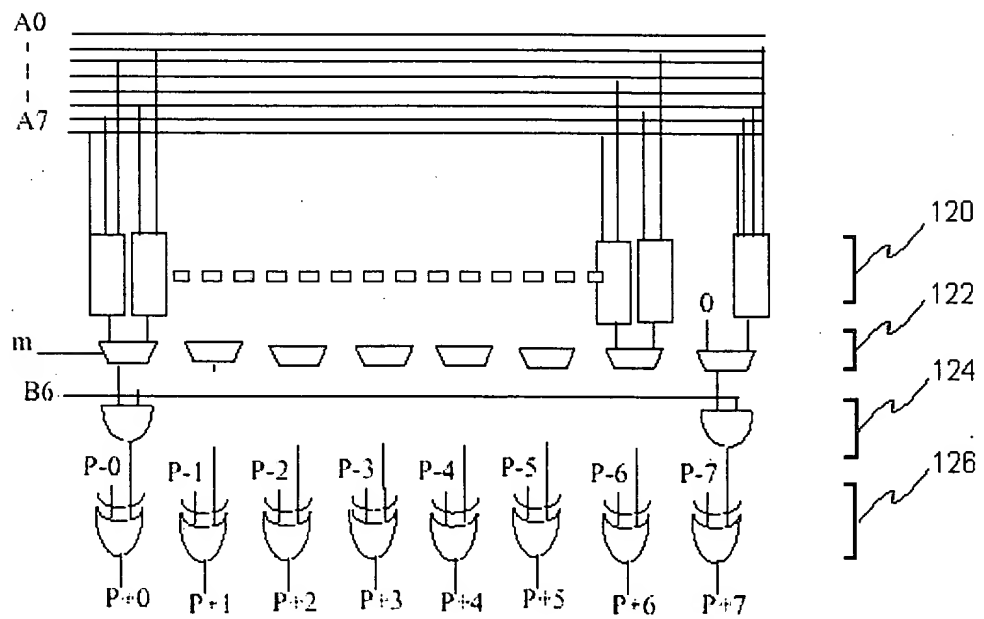
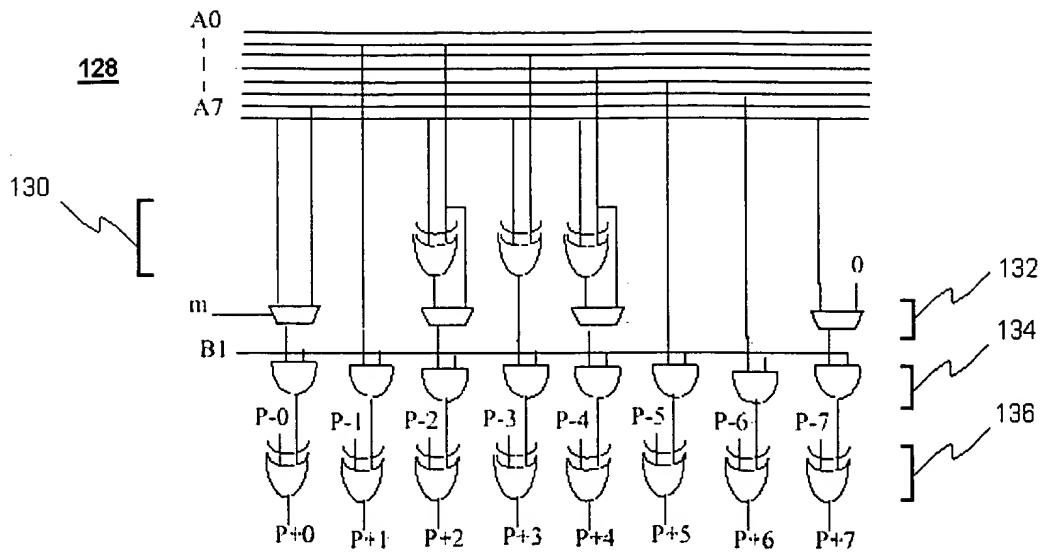


Fig. 9



**Fig. 10**